



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

[Signature]
the Application of

Yoshihito WATANABE et al.

Application No.: 10/790,060

Filed: March 2, 2004

Docket No.: 118150

For: METAL COMPLEX-PROTEIN COMPOSITE AND HYDROGENATION CATALYST

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of this non-CPA application, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.
- 2. Relevance of non-English language reference No. 1 is discussed in the present specification.
- 3. An English-language translation of non-English language reference No. 1 is attached hereto.

Respectfully submitted,

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Date: May 11, 2004

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Form PTO-1449 (REV. 8-83)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 118150	APPLICATION NO. 10/790,060	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANTS Yoshihito WATANABE et al.		
				FILING DATE March 2, 2004		
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
FOREIGN PATENT DOCUMENTS						
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)						
	1	M. Ohashi et al. "ABSTRACTS OF SYMPOSIUM ON BIOFUNCTIONAL CHEMISTRY," Chiba University, September 20-21, 2001. (w/ translation)				
	2	J. M. Brown et al. "THE MECHANISM OF ASYMMETRIC HOMOGENEOUS HYDROGENATION. SOLVENT COMPLEXES AND DIHYDRIDES FROM RHODIUM DIPHOSPHINE PRECURSORS," Journal of Organometallic Chemistry, Vol. 216, 1981, pp. 263-276.				
	3	T. Matsui et al. "FORMATION AND CATALYTIC ROLES OF COMPOUND I IN THE HYDROGEN PEROXIDE-DEPENDENT OXIDATIONS BY HIS64 MYOGLOBIN MUTANTS," J. Am. Chem. Soc., Vol. 121, 1999, pp. 9952-9957.				
	4	F. Ascoli et al. "PREPARATION AND PROPERTIES OF APOHEMOGLOBIN AND RECONSTITUTED HEMOGLOBINS," Methods in Enzymology, Vol. 76, 1981, pp. 72-87.				
	5	R. Baughn et al. "CONVERSION OF A PROTEIN TO A HOMOGENEOUS ASYMMETRIC HYDROGENATION CATALYST BY SITE-SPECIFIC MODIFICATION WITH A DIPHOSPHINERHODIUM(I) MOIETY," Journal of the American Chemical Society, 100:1, January 4, 1978, pp. 306-307.				
	6	J. Collot et al. "ARTIFICIAL METALLOENZYMES FOR ENANTIOSELECTIVE CATALYSIS BASED ON BIOTIN-AVIDIN," J. Am. Chem. Soc., Vol. 125, 2003, pp. 9030-9031.				
EXAMINER				DATE CONSIDERED		
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.						